

APPLICANT(S): EDLIS, Ofir et al.  
SERIAL NO.: 09/780,470  
FILED: February 12, 2001  
ASSIGNEE: Intel Corporation  
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### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

#### Listing of claims

Claim 1. (Currently Amended) A method comprising:

interrupting reception from a first communications system;

searching for a pilot signal of a second communications system that operates  
according to a different communication standard than said first communication system while  
substantially simultaneously being in communication with a first communications system;

and

resuming reception from said first communications system.

Claim 2. (Currently Amended) The method according to claim 1 wherein said searching comprises:

recording ~~[[on-line]]~~ online a portion of signals received from said second communications system; and

background processing said portion of signals to search for said pilot signal.

Claim 3. (Currently Amended) The method according to claim 2 wherein said ~~recording~~  
~~comprises recording~~ portion of signals is a portion of spread spectrum signals ~~and said~~  
~~processing comprises processing a portion of spread spectrum signals.~~

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Claim 4. (Original) The method according to claim 3 wherein said processing comprises performing Code Division Multiple Access (CDMA) acquisition.

Claim 5. (**Currently Amended**) The method according to claim 2 wherein said ~~recording and~~ said processing comprise recording and processing portion of signals is a portion of CDMA signals while substantially simultaneously receiving RF signals at a different frequency on-line, and said first and second communications systems are transmitting on different frequencies.

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A Claim 6. (**Currently Amended**) The method according to claim 5 wherein said recording comprises recording said portion of CDMA signals after converting ~~[[the]]~~ said portion of CDMA signals from an analog signal to a digital signal.

Claim 7. (**Currently Amended**) The method according to claim 5 wherein said recording comprises recording said portion of CDMA signals after digitally processing ~~[[the]]~~ said portion of CDMA signals.

Claim 8. (**Currently Amended**) The method according to claim 4 wherein performing said ~~[[of]]~~ CDMA acquisition comprises finding a correlation between a pseudo-noise (PN) sequence of ~~the recorded portion of CDMA signals~~ said portion of spread spectrum signals and one of a plurality of known PN sequences.

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Claim 9. (Currently Amended) The method according to claim 8, ~~[[and]]~~ further comprising shifting ~~the PN of the CDMA signals~~ said PN sequence of said portion of spread spectrum signals.

Claim 10. (Currently Amended) The method according to claim ~~[[1]]~~ 2 wherein said first communications system operates in a compressed mode of communication, and interrupting said reception comprises interrupting said reception during a gap period. ~~said compressed mode comprising a gap period wherein there is generally no reception and transmission, and said searching comprises:~~

~~recording on-line a portion of signals received from said second communications system during said gap period; and~~

~~background processing said portion of signals to search for said pilot signal.~~

Claim 11. (Currently Amended) The method according to claim ~~[[1]]~~ 2 wherein communication signals from said first communications system comprise repetitions of sub-frames in a data frame, and interrupting said searching reception comprises:

~~recording on-line a portion of signals received from said second communications system~~ interrupting said reception during at least one said repetition of at least one said sub-frame in at least one said data frame; and

~~background processing said portion of signals to search for said pilot signal.~~

Claim 12. (Currently Amended) A dual mode receiver comprising:

a ~~searcher~~ processor adapted to interrupt reception from a first communications system, adapted to search for a pilot signal of a second communications system that operates

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according to a different communication standard than said first communication system, while substantially simultaneously being in communication with a and to resume reception from said first communication system.

Claim 13. (**Currently Amended**) The receiver according to claim 12 ~~wherein said searcher comprises,~~ further comprising:

a memory ~~adapted for recording on line~~ to record online a portion of signals received from said second communications system; and

a background processing unit ~~adapted~~ to process in the background said portion of signals ~~offline~~ off-line to search for said pilot signal.

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Claim 14. (Original) The receiver according to claim 13 wherein said portion of signals comprises a portion of spread spectrum signals.

Claim 15. (Original) The receiver according to claim 13 wherein said portion of signals comprises a portion of CDMA signals.

Claim 16. (**Currently Amended**) The receiver according to claim 15 wherein said portion of CDMA signals ~~comprise~~ comprises a PN sequence.

Claim 17. (**Currently Amended**) The receiver according to claim 16 wherein said background processing unit is ~~adapted~~ to perform CDMA acquisition by processing said portion of CDMA signals ~~offline~~ off-line.

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Claim 18. (**Currently Amended**) The receiver according to claim 17 wherein said background processing unit is adapted to find a correlation between ~~[[the]]~~ said PN sequence ~~of said portion of CDMA signals~~ and one of a plurality of known PN sequences.

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Claim 19. (**Currently Amended**) The receiver according to claim ~~[[15]]~~ 13 wherein said first and second communications systems comprise at least one of CDMA, Advanced Mobile Phone Service (AMPS), Frequency Division Multiple Access (FDMA), Time Division Multiple Access (TDMA), and Global ~~Mobile Systems~~ System for Mobile communication (GSM) communications systems.

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